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ABSTRACT OF THE DISCLOSURE

A method and system for determining a load exerted on a tyre fitted on a vehicle during the running of the vehicle on a rolling surface. The tyre has an equatorial plane. A concave upward function $F_z = F_z(PL_c)$ of the tyre load versus the length of a contact region is provided between the tyre and the rolling surface. The length (PLc) is estimated substantially at the equatorial plane and the tyre load corresponding to said estimated length is derived from the function.